

SCHITTEK, W.

G-2

POLAND / Organic Chemistry. Synthetic Organic Chemistry.

Libs Jour : RZhKhim., No 10, 1958, No 32429

Author : T. Lasiak, W. Schittok

Inst : Not given

Title : Synthesis of Anthranilic Acid from o-Nitroethylbenzene.

Orig Pub : Przem. chem., 1957, 13, No 8, 456 - 457.

Abstract : New methods of converting o-C<sub>2</sub>H<sub>5</sub>C<sub>6</sub>H<sub>4</sub>NO (I) into anthranilic acid (II) were developed during the research for methods of industrial utilization of I. A mixture of 50 g of Fe filings, 250 mlit of water and 30 mlit of HCl (d = 1.18) is stirred ten min. at 80°, 151 g of I is added, 150 g of Fe is added more in 2.5 hours' time (90°), and 1.5 hours later (95 to 100°) the mixture is alkalized with 30 g of NaOH in 50 mlit of water; o-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>CO<sub>2</sub>H<sub>5</sub> is produced, yield 80%, and converted into the acetyl derivative (RZhKhim, 1956, 58005).

Card 1/2

SCHLACHTA, G.

New records sheet for required materials. p. 37.  
Vol 9, no. 10, Oct. 1955. TOBSTERMELES. Budapest, Hungary.

So; Eastern European Accession. Vol 5, no. 4, April 1956

SCHLAFER, A.

TECHNOLOGY

PERIODICAL: METALURGIA SI CONSTRUCTIA DE MASINI. Vol. 10, no. 10, Oct. 1958

SCHLAFER, A. Rational transportation of turning splinters. p. 881.

Monthly List of East European Accessions (EEAI) LC, Vol, 8, no. 4.  
April 1959, Unclass

DIMITRIU, C.Ch., prof.; NESTOR, R., dr.; SCHLAFFER, B., dr.

Considerations on a case of disseminated lupus erythematosus of a pemphigoid type. Med. intern. 15 no.2:235-240 F '63.

1. Lucrare efectuata in Clinica medicala a Spitalului "I.C. Frimu",  
I.M.F., Bucuresti.  
(LUPUS ERYTHEMATOSUS, SYSTEMIC) (EDEMA) (ASCITES)  
(NEPHROTIC SYNDROME) (BRONCHOPNEUMONIA) (PEMPHIGUS)

DIMITRIU, C.Gh., prof.; NESTOR, R., dr.; SCHLAFFER, B., dr.

Contribution to the study of the dislocating form of Bouillaud-Sokolski rheumatism. (Presentation of 3 clinical cases). Med. intern. 15 no.7:803-807 J1 '63.

1. Lucrare efectuata in Clinica medicala "I.C. Frimu", Bucuresti.  
(ARTHRITIS, RHEUMATOID)  
(RHEUMATIC HEART DISEASE)  
(HAND DEFORMITIES)  
(FOOT DISEASES)

BINDER, L.; FEKETE, F.; SCHLAFFER, Elisabeth

Pulmonary radiological changes in varicella. Acta paediat. acad.  
sci. Hung. 2 no.2:149-153 '61.

1. Laszlo Hospital for Infectious Diseases, Budapest.  
(CHICKENPOX radiol) (LUNG radiol)

BINDER, L.; DUDAS, P.; HAIDEKKER, Juliet; SCHLAFFER, Elisabeth

The later fate of children with Staphylococcal pneumonia. Acta  
paediat. acad. sci. Hung. 2 no.2:155-157 '61.

1. Laszlo Hospital for Infectious Diseases, Budapest.  
(STAPHYLOCOCCAL INFECTIONS in infancy and childhood)  
(PNEUMONIA in,inf and child)

DUDAS, Pal, dr.; AUGUSTIN, Vince, dr.; Muskatarsak: PAUSCH, Ilona, dr.  
SCHLAFFER, Erzsebet, dr.

Role of carious organisms in lung diseases complicating measles.  
Gyermekgyogyaszat 15 no.3:80-85 Mr'64

1. Budapest Foraros Laszlo korhaz kozlemenye.

\*



SCHLAGER, K.

Determination of the swelling number of coal and its relation to the results obtained through other methods. p.624.

ENERGIA ES ATOMTECHNIKA. (Energiagazdalkodasi Tudomanyos Egyesulet)  
Budapest, Hungary  
Vol. 11, no.9/10, Sept./Oct.1958.

Monthly List of East European Accessions (EAI) IC., Vol. 8, no.7, July 1959  
Uncl.

SCHLAGER, Karolyne, dr.

Analysis of processes occurring during the heating of black  
mineral coals. Veszprem vegyip egy kozl 5 no.4:377-380 '61.

1. Veszpremi Vegyipari Egyetem.

SCHLAGER, Karolyne (Budapest)

Investigation of the extracts of heat-pretreated coals. Kem tud kozl  
MTA 16 no.1:122 '61.

1. Nehezvegyipari Kutato Intezet, Budapest.

(Coal)

SZUCS, Miklos, dr.; SCHLAGER, Karolyne /

Recent results of coal dissolution in the service of investigating  
hard coal structure. Koh lap 93 no.10:460-467 0 '60.

1. Nehezvegyipari Kutato Intezet tudomanyos munkatarsa.

SCHLAGHAMERSKY, A.

The small cableway. p. 1. (SBORNIK. RADA C: SPISY FAKULTY LESNICKE, No. 1, 1957, Brno, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

SCHLAGHAMERSKY, Adolf

Calculation of the stress on cables anchored on both ends. Les  
cas 8 no.6:456-473 '62.

1. Lesnicka fakulta, Vysoka skola zemedelaka, Brno.

DOLEZAL, Bohumil, prof. dr. inz. DrSc.; SCHLAGHAMERSKY, Adolf, inz. CSc.

Effect of the new transportation technology on the design of forest road networks. Les cas 11 no.3:209-232 Mr '65.

1. Faculty of Forestry of the Higher School of Agriculture, Brno. Submitted February 11, 1964.

SCHLAMMADINGER, Jozsef, dr.

Curling's ulcer. Borgyogy. vener. szemle 11 no.2-3:101-105 Apr-June 57.

1. Szolnokmegyei Tanacs Korhaza (igazgato: Levay Karoly dr.)  
borosztalyanak kozlemenye (Forvos: Schlammadinger Jozsef, dr.)

(PEPTIC ULCER, case reports

Curling's ulcer (Hun))

(BURNS, compl.

Curling's ulcer, case reports (Hun))



CZUKRASZ, Ida, dr.; SCHLAMMADINGER, Jozsef, dr.

On the pathogenesis of Groenblad-Strandberg syndrome (pseudoxanthoma elasticum). Orv. hetil. 102 no.25:1177-1180 18 Je '61.

1. Szolnok Megyei Tanacs Korhaza, Szemeszeti es Borgyogyaszi Osztalya.

(PSEUDOXANTHOMA ELASTICUM case reports)

s/123/62/000/015/012/013  
A052/A101

AUTHOR: Schlatter, Rene

TITLE: The manufacture of mold castings of Cu-Cr alloys

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 15, 1962, 7,  
abstract 15G45 (Giesserei, v. 49, no. 3, 1962, 60 - 70, German;  
English, French summaries)

TEXT: A detailed review of properties and applications of Cu-Cr alloys, of their smelting and casting technology as well as of the methods of preparing molds for casting. For mold castings alloys with 0.7-1.2% Cr (for plastic deformation with 0.4-0.8% Cr) are used. To the main advantages of Cu-Cr alloys belong their high strength, including heat resistance, heat and electric conductivity, good antifriction properties and high wear resistance. These properties are achieved after heat treatment consisting of hardening at 1025° C and aging at 450 - 510° C. The improvement of properties at the described heat treatment is based on the change of Cr solubility in a solid state in Cu from 0.5% at 1025° C to less than 0.05% at 400° C. The optimum amount of Cr for mold casting is 0.9±0.2%. An additional alloying with other elements does not result in an improvement of properties. As far as the heat and electric conductivity are concerned, the admixtures

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S/123/62/000/015/012/013  
A052/A101

The manufacture of mold castings of Cu-Cr alloys

of Fe and Si as well as of Mn are particularly harmful, and  $\text{Cr}_2\text{O}_3$  with respect to technological properties and strength. Cr nitrides and carbides are practically not formed when smelting under charcoal or graphite layer. For preparing alloys, master alloys with 5-6% or 9-12% Cr (the latter are better) are used. In view of oxidizability of Cr, master alloys of the highest quality are prepared in a vacuum. Thereby the oxygen contained in electrolytic Cr is removed almost completely, too. Crucible furnaces of various design are most suitable for smelting, however, the risk of metal contamination at reduction by  $\text{SiO}_2$  must be taken into account.

When using returns a special problem presents the metal contamination with  $\text{Cr}_2\text{O}_3$ .

For this reason until recently fresh materials only were used for smelting. Attempts of refining alloys with  $\text{N}_2$  and  $\text{Cl}_2$  have not yielded satisfactory results. At present fluxes consisting of lime with additions of chlorine and fluorine salts are used with success. This enables one to use up to 80% returns in the charge. The losses of Cr at smelting reach 30-40%, however, at a careful control of the process they can be reduced to 25% and the application of fluxes cuts the losses down by additional 5%. Cu-Cr alloys have good casting properties and do not tend to formation of porosity in castings (the range of solidification of alloys is about  $10^\circ\text{C}$ ). A number of instructions relating to the technique of mold filling

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The manufacture of mold castings of Cu-Cr alloys

S/123/62/000/015/012/013  
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are given, as well as the methods of mold preparation and gate arrangement taking into account the high tendency of Cr-Cu alloys to scab formation. The methods known for aluminum bronzes and some sorts of brasses must be applied to these alloys. Particular examples of designing gate system elements are cited. Casting can be done into moist and dry molds. The advantages of casting Cu-Cr alloys with a turn (Betty's method) are discussed separately. Casting Cu-Cr alloys in metal molds is possible but on a very limited scale. Special attention is paid to the proper conditions of the heat treatment of alloys. In the process of heating for hardening the removal of Cr is possible due to its oxidation in the surface layer of castings. The reduction of the heating time for hardening and the selection of the same type (by weight and wall thickness) of castings for a charge are of great importance. The hardening must be done in a very abrupt manner since Cu-Cr alloys are not sensitive to hardening cracks. In the process of aging the Cr precipitation in a submicroscopic form takes place. As the aging time increases, the Cr coagulation takes place with the result that the hardness and strength of alloys decrease and electric conductivity increases. In cast Cu-Cr alloys the heat treatment processes take a slower course than in plastically deformed alloys, but the final properties are practically equivalent. There are 17 references and 18 graphs. ✓

K. Lebedev

[Abstracter's note: Complete translation]

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1st and 2nd ORDER PROCESSES AND PROPERTIES INDEX

CA

1

→ Furnace, especially for coal distillation at 400-600°. JENŐ SCHLATTNER. Hung. 104,660, July 16, 1928. Mech. details.

COMMON ELEMENTS

MATERIAL INDEX

OPEN

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

| 1st ORDER |   |   |   |   |   |   |   |   |    | 2nd ORDER |    |    |    |    |    |    |    |    |    |
|-----------|---|---|---|---|---|---|---|---|----|-----------|----|----|----|----|----|----|----|----|----|
| 1st ORDER |   |   |   |   |   |   |   |   |    | 2nd ORDER |    |    |    |    |    |    |    |    |    |
| 1         | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11        | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|           |   |   |   |   |   |   |   |   |    |           |    |    |    |    |    |    |    |    |    |

| 1ST AND 2ND OBJECTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | PROCESSES AND PROPERTIES INDEX |  | 1ST AND 2ND OBJECTS |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------|--|---------------------|--|
| <p>Coal distilling plant and briquet production at Dorog.<br/> Jeno Schlatter. Magyar Mésok-Epítészeti Közlöny 6<br/> 1924-25 (1924). - Coke is prepd. from coal powder ob-<br/> tained in the production of Eocene-Oligocene Hungarian<br/> coal. A specially constructed furnace is used for the first<br/> distn. the furnace of Szeki for the 2nd. The oil yield<br/> could be increased by using the method of Romwalter (cf.<br/> C. A. 25, 2836). The household coke briquette produced<br/> contained 3% moisture, 14% ash, showing a calorific value<br/> of 6600 cal. Oil yield was 4% of the raw coal. Steel</p> |  |                                |  |                     |  |
| <p>contg. 7-8% Ni could be used for app. up to 800-25°;<br/> above this temp. Cr, Al, Si and Mn steels should be ap-<br/> plied in furnace construction. S. S. de Fényi</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                |  |                     |  |
| <p>ASA-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                |  |                     |  |
| <p>1ST AND 2ND OBJECTS</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                |  |                     |  |

Schlattner, J.

HUNG.

5092. COKE FROM HUNGARIAN BROWN COAL SUITABLE FOR STEEL  
PRODUCTION. Schlattner, J. (Magyar Tech., 1953, vol. 8, (7-8),  
479; title in Ref. Zh. Khim. (Ref. J. Chem., Moscow), 1954, (21),  
47213).

SCHLATTNER, J. - Magyar Energiagazdasag - Vol. 8, no. 6, June 1955

Coal and its derivatives as power sources at the 4th World Power Conference. p. 209.

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955  
Uncl.



SCHLATTNER, J.

Magyar Kemikusok Lapja - Vol. 10, no. 5, May 1955

Report on questions relating to coal dressing at the 4th World Power Conference in Rio de Janeiro. p. 150.

SO: Monthly list of East European Accessions, (EEAL), LC, Vol.4, No. 9, Sept. 1955  
Uncl.

SCHLATTNER, Jeno, a kémiai tudományok kandidátusa (Budapest); TAKACS, Pal, a kémiai tudományok kandidátusa (Veszprem)

Economical aspects of coking and gas production. Kem tud kozl MTA 16 no.1:33-39 '61.

1. Vegyimuveket Tervezo Vallalat, Budapest(for Schlattner). 2. Nehez-vegyipari Kutato Intezet, Veszprem(for Takacs).

(Coke) (Gas)

SCHLATTNER, Jeno, a kemiai tudományok kandidátusa (Budapest)

Effect of ash on the combustion temperature of coal. Kem tud kozl  
MTA 16 no.1:117-118 '61.

1. Vegyimuveket Tervezo Vallalat, Budapest.

(Coal) (Combustio) (Ash)

SCHLATTNER, Jeno, a kémiai tudományok kandidátusa (Budapest)

Development of the Schlattner's furnace. Kem tud kozl MTA 16 no.1:  
127 '61.

1. Vegyimuveket Tervezo Vallalat, Budapest.

(Furnaces)

KORANYI, Gyorgy, dr.; GYULAY, Zoltan, egyetemi tanar; DIOSZEGHY, Daniel, egyetemi tanar; WAHLNER, Aladar, fomernek; VAMOS, Endre, kandidatus; NYUL, Gyula, kandidatus; FREUND, Mihaly, dr., akademikus; SZADECZKY KARDOSS, Elemer, akademikus; TAKACS, Pal, dr., kandidatus; SCHLATTNER, Jenő, kandidatus; HARDY, Gyula, a kemiai tudományok kandidatusa

Report on the 1959-60 work of the Committee on Petroleum and Coal Processing, Hungarian Academy of Sciences. Kem tud kozl MTA 16 no.3: 349-359 '61.

SCHLATTNER, Jenő, dr. (Budapest, XII., Sirály u.8)

Effect of ash content on the heat of combustion of coals.  
Acta chimica Hung 35 no.3:301-308 '63.

1. Enterprise for Planning Chemical Plants, Budapest.

SCHACHTER, A., dr.; MAXIMILLAN, V., dr.; SCHLEFFER, B., dr.

Migratory thrombophlebitis. Clinical and etiological aspects.  
Med. intern., Bucur 12 no.11:1693-1698 N '60.

1. Lucrare efectuata in Clinica medicala, spitalul "I.C.Frimu",  
I.M.F. Bucuresti.

(THROMBOPHLEBITIS case reports)

SCHLEGEL, Oszkar

The lower Danubian dam on the threshold of its realization.  
Hidrologiai kozlony 43 no.6:508 D '63.



SCHLEGEL, Oszkar

Regulation of the Morava River in Yugoslavia. Hidrologiai kozlony  
44 no.6:267 Je '64.

SCHLEGEI, Oszkar

Water supply questions of Krk Island. Hidrológiai közlöny  
45 no.4:191-192 Ap '65.

SCHLEGER, E.

SCHLEGER, E. A smoke calamity in the Erzgebirge forests. p. 307.

Vol. 11, no. 10, Dec. 1956

OCHRANA PRIRODY

AGRICULTURE

Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

CHMELO, A.; SCHMIDT, K.; KAMENICKY, F.; SCHLEICHART, J.

Early diagnosis of perinatal infections. Cesk. pediat. 19  
no.9:814-820 S '64.

1. Porodnicke oddelenie, usek novorodenacky (veduci MUDr.  
E. Chovan); Patologickoanatomicke oddelenie (veduci MUDr.  
K. Schmidt); Betske oddelenie (veduci MUDr. F. Kamenicky);  
Mikrobiologicke oddelenie (veduci MUDr. J. Schleichart) a  
nemocnice Obvodniho ustava narodniho zdravi v Prievidzi.

SCHLEICHER, Aladar

DECEASED

1880 - 1962

Metallurgy

I 20861-66 EWT(m)/EWP(t) JD

SOURCE CODE: GE/0006/65/000/008/0287/0292

ACC NR: AP6011092

AUTHOR: Krahl, K.; Schleicher, E.; Pertsch, W.

ORG: KDT, Hermsdorf; VEB Ceramics Factory, Hermsdorf-Thur (VEB Keramische Werke)

TITLE: Microelectronics based on thin film technology<sup>10</sup> [The paper was presented at the Section Meeting entitled "Problems of microelectronics" at the Scientific Congress held in Leipzig from 8 to 9 March 1965] III

SOURCE: Nachrichtentechnik, no. 8, 1965, 287-292

TOPIC TAGS: microelectronics, microelectronic thin film, electronic circuit, microelectronic circuit, solid state device

ABSTRACT: The need for the reduction in size of the electronic equipment and the successes achieved in this direction in the Western world prodded the Ceramic Factory Hermsdorf to start in 1960 the development (in a manner similar to the RCA micromodule technology program) of miniaturized electronic circuits which could be gradually expanded in parallel with the growth of the technological means. The article reports on the advances in this direction at the factory during the 1960-65 period. The development was carried out in agreement with the modern views concerning the economical automatic production of complex circuit-building elements and it resulted in the creation of the so-called KME series of complex microelectronic elements. The description of the mastering of the thin film-hybrid technology, of the operational

UDC: 621.3.049.7

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I 20861-66

ACC NR: AP6011092

characteristics of the units already in production, and of the future plans aiming, e.g., at the production of elements incorporating solid state switching devices is intermixed with a survey of the achievements of international microelectronic technology. Orig. art. has: 13 figures and 4 tables. [JPRS]

SUB CODE: 09 / SUBM DATE: 10Apr65

Card 2/2 *281*

SCHLIMMER, Leon, Wrzeszcz, Akad. Med. II. klinika chirurg.

Effect of collapse therapy on respiratory function. Gruzlica  
22 no.10:699-708 Oct 54.

1. Z II Kliniki chirurg. Akad. Med. w Gdansk, kierownik: prof.  
dr. K. Debicki

(COLLAPSE THERAPY  
eff. on resp. funct.)  
(RESPIRATION, physiology  
eff. of collapse ther.)



SCHLEIFER, Leon

Diaphragmatic hernias. Polski tygod. lek. 10 no.36:1179-1184 5 Sept 55.

1. Z II Kliniki Chirurgicznej A.M.G., kierownik: prof.  
K. Debicki. Gdansk, II Klinika Chirurgiczna A.M.  
(HERNIA, DIAPHRAGMATIC)

~~SCHLEIFER, Leon~~

Spontaneous rupture of the Achilles tendon. Chir. narz. ruchu 20  
no.1:69-72 1955.

1. Z II Kliniki Chirurgicznej A.M. w Gdansk. Kierownik: prof. dr  
K. Debicki.

(HEAL,

Achilles tendon, rup., spontaneous)

SCHLEIFER, Leon.

Management of fractures of the clavicle. Chir. narz. ruchu 20  
no. 4:309-312 1955.

1. Z II Kliniki Chirurgicznej A.M. w Gdansk. Kierownik: prof.  
dr. K. Debicki. Sopot, Aleja Czerwonej Armii 99/1.

(CLAVICLE, fractures,  
ther.)

(FRACTURES  
clavicle, ther.)

SCHLEIFER, Leon.

Three cases of Meckel's diverticulum. Polski przegl. chir. 27 no.11:  
1129-1131 Nov 55.

1. II Klinika Chirurgiczna A.M.G. Kierownik: prof. dr. med.  
K.Debicki. Sopot, ul. Czerwonej Armii 99 m. 1.  
(MECKEL'S DIVERTICULUM  
clin. aspects & diag.)

*Schleifer Leon*  
LAPINSKI, Zdzislaw; SCHLEIFER, Leon; PAK-CZU-SON

Surgical complications of digestive amebiasis. Polski tygod. lek.  
11 no.24:1062-1067 11 June 56.

1. Z I Klin. Chirur. Akad. Med. w Hamhynie, KRLD; p.o. kier. Klin.  
doc. dr Zdzislaw Lapinski. Warszawa, ul. Kopernika 11 m. 23.  
(AMEBIASIS, INTESTINAL, complications,  
surg. (Pol) )

L 04968-67 EWP(e)/EWP(t)/WTI LJP(c) JD/WH

ACC NR: AP6023985

(A)

SOURCE CODE: PO/0015/66/000/004/0085/0090

AUTHOR: Schleifer, P.

24  
B

ORG: Department of Glass Technology, AGH, Cracow (Katedra Technologii Szkla AGH)

TITLE: Catalytic crystallization of the vitreous phase of magmatic rocks, glass and metallurgical slag

SOURCE: Szklo i ceramika, no. 4, 1966, 85-90

TOPIC TAGS: catalyzed crystallization, slag, glass, rock,

ABSTRACT: The object of the study was to determine the dependence of the physical properties of the polycrystalline structure on the amount of metallurgical slag added to the vitreous phase of magma rocks and glass. The gradient method was used to study the crystallization of vitreous samples. Microscopy and microhardness measurements were used on the crystallized samples. Crystallized polycrystalline materials having better physical and chemical properties than the vitreous phase were thus obtained in the system  $\text{SiO}_2\text{-Al}_2\text{O}_3\text{-CaO-MgO}$ . The catalysts affecting the crystallization kinetics in these materials were not only the relicts of the mineral structure in the molten magma rocks, but primarily dispersed compounds of heavy metals of metallurgical slag exhibiting the properties of nucleators. The most effective ones were those whose ions can exist in various oxidation states, and whose sulfides have melting points above  $1000^\circ\text{C}$ . The observed increase in microhardness showed favorable crystal-

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SCHLEIS, V.

"Brnřirov Collective Farm, Bearer of the Order of the Republic, is Paying for all the Work of Machine-Tractor Stations in Kind", P. 827, (ZASOIALISTICKÉ ZEMĚDĚLSTVÍ, Vol. 4, No. 7/8, July/Aug. 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

SCHLEMMER, Jan

Fyzikalna chemia pre priem skoly chemicke. (Physicat Chemistry for Chemical Industrial Schools. a textbook. Tr. from the Czech. illus., indes, tables). Authors: Jan Schlemmer, Vladimir Valter. Bratislava, SVTL, 1957. 378 p.

Bibliograficky katalog, CSR, Slovenske Kihy, Vol. VIII. 1957. No. 9. p. 277.



SCHLEMER, J.

The infrared radiator in chemical laboratories.

P. 14 (Chemie, Vol. 9 no. 1, April 1957, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EFAI) LC. Vol. 7, no. 2,  
February 1958

SCHLEMMER, J.

Investigation of the infrared spectrum by means of a picture transmitter.

P. 17, (Chemie, Vol. 9, no. 1, Apr. 1957, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2,  
February 1958

SCHLEIFER, J.

Ways of making an infrared picture visible.

p. 281. (Chemie, Vol. 9, no. 2, Apr. 1957, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2,  
February 1958

SCHLEIFER, Pawel; DABROWSKI, Jerzy

The influence of nickel oxide on the selective absorption of light in soda-lime and soda-lead glass. Ceramika 32 no.4:47-54 '61.

1. Katedra Technologii Szkła Akademii Górniczo-Hutniczej, Krakow.

SCHLEIFER, Pawel; BRZOZKA, Jerzy

Investigation on the absorption of radiation in glasses colored with cobalt oxide and in glasses colored with cobalt oxide together with iron oxide. Ceramika 32 no.4:55-62 '61.

1. Katedra Technologii Szkla Akademii Gorniczo-Hutniczej, Krakow.

SCHLEIFER, Pawel

Crystalline glass of the pyroceramic type. Przegl  
elektroniki 3 no.11:636-637 N '62.

1. Katedra Technologii Szkla, Akademia Gorniczo-Hutnicza,  
Krakow.

SCHLEIFER, Pawel

Glasses containing a high percentage of silicon  
(over 96% of  $\text{SiO}_2$ ) characterized by high electrical  
resistivity. Przegl elektroniki 3 no.11:637-639  
N '62.

1. Katedra Technologii Szkla, Akademia Gorniczo-Hutnicza,  
Krakow.

SCHLEIFER, P.

Radioactive scandium glass as applied to oceanographic studies.  
Wszechswiat no.11:250 N '64.



SCHLEIFER, Pawel

Crystalline glass for low temperature vacuum sealing of  
vacuum tube parts of glass. Przegl elektroniki 3  
no.11:639-640 N '62.

1. Katedra Technologii Szkla, Akademia Gorniczo-Hutnicza,  
Krakow.

ACCESSION NR: AP4017191

P/0015/64/000/002/0033/0036

AUTHOR: Schleifer, Pawel

TITLE: Vitreous range in three-component systems based on  $\text{Sb}_2\text{O}_5$  and physicochemical properties of antimony glasses

SOURCE: Szkło i ceramika, no. 2, 1964, 33-36

TOPIC TAGS: vitreous state, antimony glass, three component glass, three component glass system, antimony glass physicochemical properties, electric conductivity, thermal expansion, heat endurance, light transmission, refractive index, dispersion, antimony oxide glass, antimony sulfide glass, low melting point glass

ABSTRACT: For a more detailed study of antimony glass and of the effect of the antimony ion on the physicochemical properties of glass, research is carried out at the Katedra Technologii Szkła Akademii Górniczo-Hutniczej (Department of Glass Technology, Mining Academy) in Krakow on glass with compositions  $\text{Sb}_2\text{O}_5 - \text{Na}_2\text{O} - \text{SiO}_2$ ,  $\text{Sb}_2\text{O}_5 - \text{B}_2\text{O}_3 - \text{Li}_2\text{O}$ , and  $\text{Sb}_2\text{O}_5 - \text{B}_2\text{O}_3 - \text{PbO}$ . The research is oriented at

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ascertaining the possibility of introducing antimony oxide in glass under variable component concentration and the range within which uniform glass can be obtained. A total of 335 glass melts were tested for electric conductivity, thermal expansion, heat endurance, light transmission in three colors, refractive index, and dispersion. Among the results of the research are a synthesis procedure for red ruby glass colored with  $Sb_2S_3$ , optical glass of large refractive index and low dispersion (particularly in the blue part of the spectrum), glass for television tubes, low melting point glass for the electronic industry and for other applications (sealing, atomic energy, and rocketry). "I am grateful to mgr. inż. T. Konarkowska and to mgr. inż. M. Diedroniowa for help with preparing the glass melts and to J. Procykova for preparing the drawings for this paper." Orig. art. has: 6 figures.

ASSOCIATION: Katedra Technologii Szkla AGH, Krakow (Department of Glass Technology, AGH)

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AUTHOR: Schleifer, P.

ORG: Glass Technology Department, AGH (Katedra Technologii Szkla AGH)

TITLE: Effect of fluoride ion on the physicochemical properties of the vitreous state of the systems  $AlF_3-PbO-B_2O_3$  and B-F-O

SOURCE: Szklo i ceramika, no. 12, 1965, 329-331

TOPIC TAGS: fluoride, aluminum compound, lead oxide, boron compound

ABSTRACT: Glasses of the ternary system  $AlF_3-PbO-B_2O_3$  and pseudoternary system B-F-O were studied in order to determine the effect of fluoride ions on the deformation of structure and the resulting changes in properties, and to investigate the extent to which  $AlF_3$  can be introduced into the glass when variable concentrations of the components are employed. Glasses containing up to 50%  $AlF_3$ , up to 55%  $B_2O_3$ , and up to 90% PbO were considered. To determine the region of glass formation, 100 melts were prepared, only 30 of which produced glass in the  $AlF_3-PbO-B_2O_3$  system. The glasses were colorless (30-50% PbO), greenish-yellow or olive-green (55-75% PbO), and yellowish-brown (75-90% PbO). They displayed a high density and a high transmittance in the visible and especially in the ultraviolet and infrared. They had a low softening point, various degrees of coloration, a high refractive index dependent on  $Pb^{2+}$  ions, and a high Abbe number dependent on  $F^-$  ions. In the B-F-O system

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SURNAME, Given Names

Country: Poland

Academic Degrees: not given

Affiliation: Presumed Ludwik Hirszfeld Institute of Immunology and Experimental Therapy (Instytut Immunologii i Terapii Doswiadczalnej im. Ludwika Hirszfelda), Polish Academy of Sciences (PAN--Polska Akademia Nauk), Wroclaw; Director: Prof. Stefan SLOPEK, Dr.

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